## FIGURE 12A

GCTGGTACGCCTGCAGGTACCGGTCCGGAATTCCCGGGTCGACCCACGCGTCCGCCCACGCG TCCGCGGGAGCGCAGTTAGAGCCGATCTCCCGCGCCCCGAGGTTGCTCCTCTCCGAGGTCTC CCGCGGCCCAAGTTCTCCGCGCCCCGAGGTCTCCGCGCCCCGAGGTCTCCGCGCCCGAGGT CTCCGCCCGCACC												-138 -76 -14 -1			
ATG M	CGG R	CTG L	GGC G	AGT S 5	CCT P		CTG L			CTG L		TTC F		AGC S 15	45
CTT <u>L</u>	CGA R			ACT *T 20		GAG *E		GAA *E	GTC V 25	AGA R		ATG *M	GTA V	GGC G 30	90
AGC S	GAC D	GTG V	GAG E	CTC L 35	AGC S	TGC C	GCT A	TGC C	ССТ Р 40	GAA E	GGA G	AGC S	CGT R	TTT F 45	135
GAT D	TTA L	AAT N	GAT D	GTT V 50	TAC Y	GTA V	TAT Y	TGG W	CAA Q 55	ACC T	AGT S	GAG E	TCG S	AAA K 60	180
ACC T	GTG V	GTG V	ACC T	TAC Y 65	CAC H	ATC I	CCA P	CAG Q	AAC N 70	AGC S	TCC S	TTG L	GAA E	AAC N 75	225
GTG V	GAC D	AGC S	CGC R	TAC Y 80	CGG R	AAC N	CGA R	GCC A	CTG L 85	ATG M	TCA S	CCG P	GCC A	GGC G 90	270
ATG M	CTG L	CGG R	GGC G	GAC D 95	TTC F	TCC S	CTG L	CGC R	TTG L 100	TTC F	AAC N	GTC V	ACC T	CCC P 105	315
CAG Q	GAC D	GAG E	CAG Q	AAG K 110	TTT F	CAC H	TGC C	CTG L	GTG V 115	TTG L	AGC S	CAA Q	TCC S	CTG L 120	360
GGA G	TTC F	CAG Q	GAG E	GTT V 125	TTG L	AGC S	GTT V	GAG E	GTT V 130	ACA T	CTG L	CAT H	GTG V	GCA A 135	405
GCA A	AAC N	TTC F	AGC S	GTG V 140	CCC P	GTC V	GTC V	AGC S	GCC A 145	CCC P	CAC H	AGC S	CCC P	TCC S 150	450
CAG Q	GAT D	GAG E	CTC L	ACC T 155	TTC F	ACG T	TGT C	ACA T	TCC S 160	ATA I	AAC N	GGC G	TAC Y	CCC P 165	495
AGG R	CCC P	AAC N	GTG V	TAC Y 170	TGG W	ATC I	AAT N	AAG K	ACG T 175		AAC N	AGC S	CTG L	CTG L 180	540
GAC D	_	GCT A	CTG L	CAG Q 185	AAT N	GAC D	ACC T	GTC V	TTC F 190		AAC N	ATG M	CGG R	GGC G 195	585
TTG L	TAT Y	GAC D	GTG V	GTC V 200	AGC S	GTG V	CTG L	AGG R	ATC I 205	GCA A	CGG R	ACC T	CCC P	AGC S 210	630
GTG V	AAC N	ATT I	GGC G	TGC C 215	TGC C	ATA I	GAG E	AAC N	GTG V 220	CTT L	CTG L	CAG Q	CAG Q	AAC N 225	675

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## FIGURE 12A Continued

CTG L	ACT T	GTC V	GGC G	AGC S 230	CAG Q	ACA T	GGA G	AAT N	GAC D 235	ATC I	GGA G	GAG E	AGA R	GAC D 240	720
AAG K	ATC I	ACA T	GAG E	AAT N 245	CCA P	GTC V	AGT S	ACC T	GGC G 250	GAG E	AAA K	AAC N	GCG A	GCC A 255	765
ACG T	TGG W	AGC S	ATC I	CTG L	GCT A	GTC V	CTG L	TGC C	CTG L	CTT L	GTG V	GTC V	GTG V	GCG <u>A</u>	810
				260					265					270	
GTG V	GCC A	ATA I	GGC G	TGG W 275	GTG V	TGC C	AGG R	GAC D	CGA R 280	TGC C	CTC L	CAA Q	CAC H	AGC S 285	855
TAT Y	GCA A	GGT G	GCC A	TGG W	GCT A	GTG V	AGT S	CCG P	GAG E	ACA T	GAG E	CTC L	ACT T	GGC G 300	900
CAC H	GTT V 302	TGA STO	₽												909
CCGGAGCTCACCGCCCAGAGCGTGGACAGGGCTTCCGTGAGACGCCACCGTGAGAGGCCAGG TGGCAGCTTGAGCATGGACTCCCAGACTGCAGGGGAGCACTTGGGGCAGCCCCCAGAAGGAC CACTGCTGGATCCCAGGGAGAACCTGCTGGCGTTGGCTGTGATCCTGGAATGAGGCCCTTTC									971 1033 1095						

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## FIGURE 13A

AACAATTTCACACAGGAAACAGCTATGACCATGATTACGCCAAGCTCTAATACGA CTCACTATAGGGAAAGCTGGTACGCCTGCAGGTACCGGTCCGGAATTCCCGGGTC GACCCACGCGTCCGTGAACACTGAACGCGAGGACTGTTAACTGTTTCTGGCAAAC												-111 -56 -1			
ATG M	AAG K	TCA S		CTC L 5								TTG L		ATT <u>I</u> 15	45
	GTT V		ACA T	GGA *G 20	GAA *E	ATC I	AAT N	GGT G	ТСТ S 25	GCC A	AAT N	TAT Y	GAG E	ATG M 30	90
TTT F	ATA I	TTT F	CAC H	AAC N 35	GGA G	GGT G	GTA V	CAA Q	ATT I 40	TTA L	TGC C	AAA K	TAT Y	ССТ Р 45	135
GAC D	ATT I	GTC V	CAG Q	CAA Q 50	TTT F	AAA K	ATG M	CAG Q	TTG L 55	CTG L	AAA K	GGG G	GGG G	CAA Q 60	180
ATA I	CTC L	TGC C	GAT D	CTC L 65	ACT T	AAG K	ACA T	AAA K	GGA G 70	AGT S	GGA G	AAC N	ACA T	GTG V 75	225
TCC S	ATT I	AAG K	AGT S	CTG L 80	AAA K	TTC F	TGC C	CAT H	ТСТ S 85	CAG Q	TTA L	TCC S	AAC N	AAC N 90	270
AGT S	GTC V	TCT S	TTT F	ТТТ F 95	CTA L	TAC Y	AAC N	TTG L	GAC D 100	CAT H	TCT S	CAT H	GCC A	AAC N 105	315
TAT Y	TAC Y	TTC F	TGC C	AAC N 110	CTA L	TCA S	ATT I	TTT F	GAT D 115	CCT P	CCT P	CCT P	TTT F	AAA K 120	360
GTA V	ACT T	CTT L	ACA T	GGA G 125	GGA G	TAT Y	TTG L	CAT H	ATT I 130	TAT Y	GAA E	TCA S	CAA Q	CTT L 135	405
TGT C	TGC C	CAG Q	CTG L	AAG K 140	TTC F	TGG W		CCC P	ATA I 145		TGT C	GCA A	GCC A	TTT F 150	450
GTT <u>V</u>	GTA V	GTC V	TGC C	ATT 1	TTG L	GGA G		ATA I	CTT L 160	ATT I	TGT C	TGG W	CTT L	ACA T 165	495
AAA K	AAG K	AAG K	TAT Y	TCA S 170	TCC S	AGT S	GTG V	CAC H	GAC D 175	CCT P	AAC N	GGT G	GAA E	TAC Y 180	540
ATG M	TTC F	ATG M	AGA R	GCA A 185	GTG V	AAC N	ACA T	GCC A	AAA K 190	AAA K	TCT S	AGA R	CTC L	ACA T 195	585
GAT D	GTG V	ACC T	CTA L 199	TAA STOI	Ď										600
TATGGAACTCTGGCACCCAGGCATGAAGCACGTTGGCCAGTTTTCCTCAACTTGA AGTGCAAGATTCTCTTATTTCCGGGACCACGGAGAGTCTGACTTAACTACATACA											655 710				

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## FIGURE 13A Continued

TCTTCTGCTGGTGTTTTGTTCAATCTGGAAGAATGACTGTATCAGTCAATGGGGA	765
TTTTAACAGACTGCCTTGGTACTGCCGAGTCCTCTCAAAACAAAC	820
AACCAGCTTTGGAGAAAGCCCAGCTCCTGTGTGCTCACTGGGAGTGGAATCCCTG	875
TCTCCACATCTGCTCCTAGCAGTGCATCAGCCAGTAAAACAAAC	930
AAAAATGTTTTAAAGATGCCAGGGGTACTGAATCTGCAAAGCAAATGAGCAGCCA	985
AGGACCAGCATCTGTCCGCATTTCACTATCATACTACCTCTTCTTTCT	1040
TGAGAATTCCTCTTTTAATCAGTCAAGGGAGATGCTTCAAAGCTGGAGCTATTTT	1095
ATTTCTGAGATGTTGATGTGAACTGTACATTAGTACATACTCAGTACTCCTTC	1150
AATTGCTGAACCCCAGTTGACCATTTTACCAAGACTTTAGATGCTTTCTTGTGCC	1205